

FIG. 1

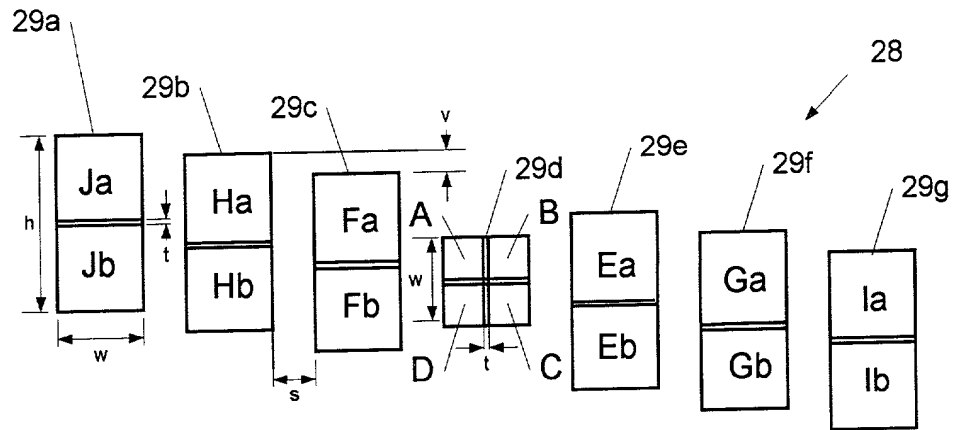


FIG. 2A

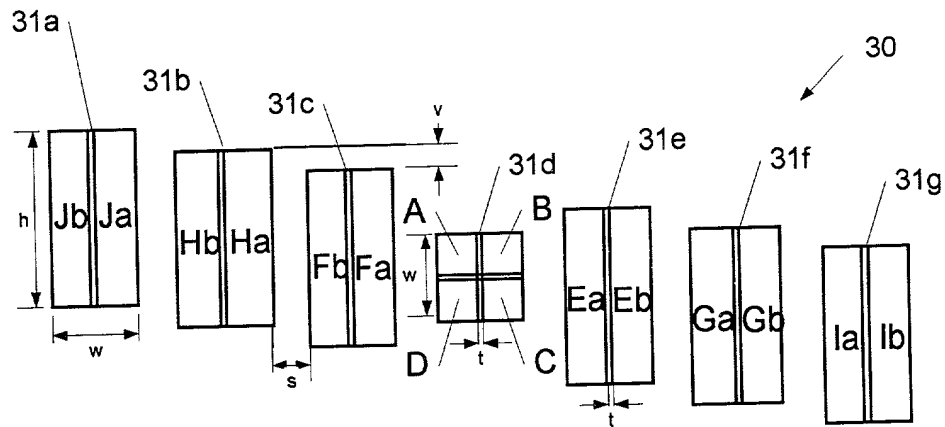


FIG. 2B

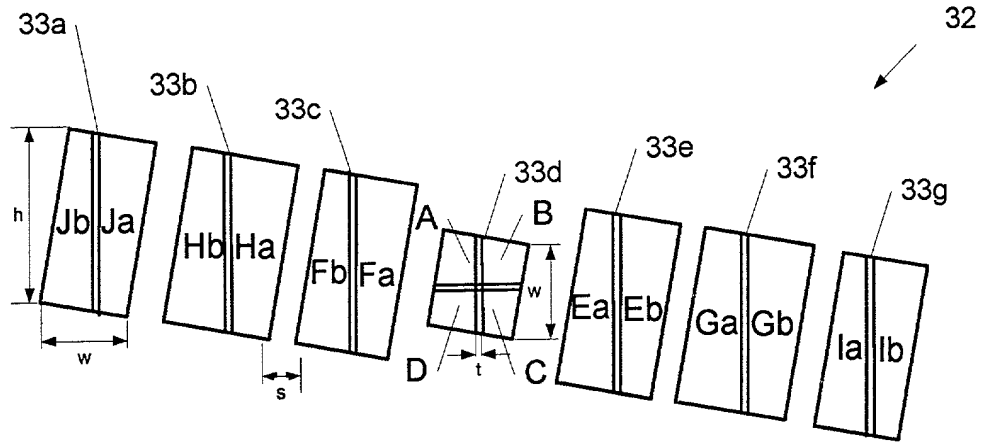
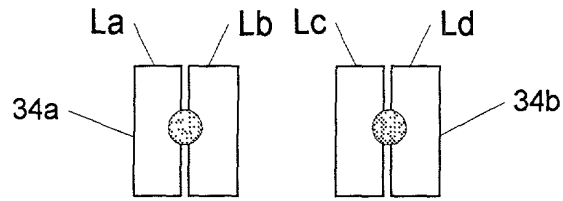
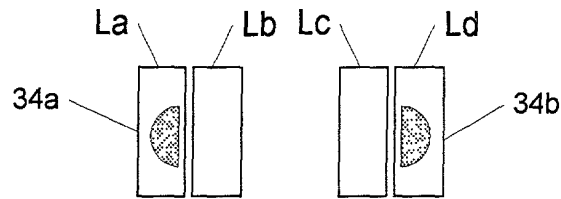


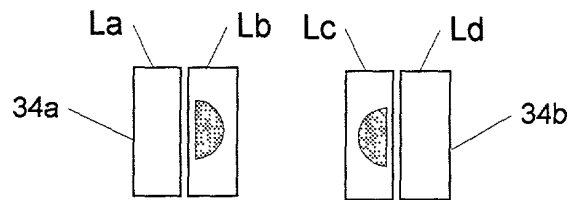
FIG. 2C



**Disk in focus**

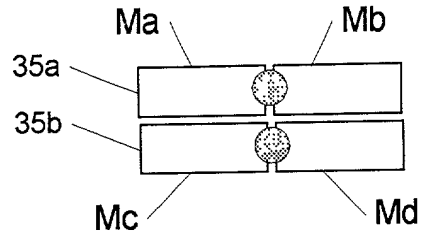


**Disk close to objective lens**

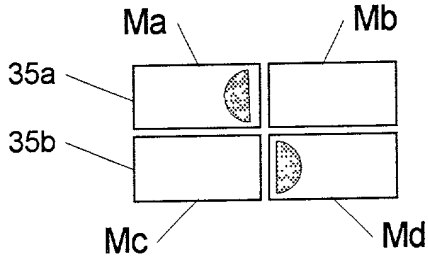


**Disk far from objective lens**

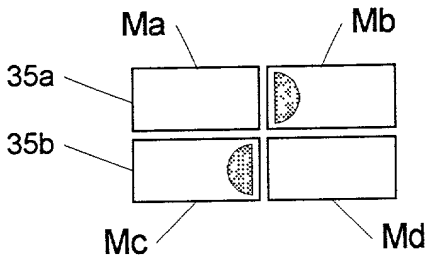
**FIG. 3A**



**Disk in focus**



**Disk close to objective lens**



**Disk far from objective lens**

**FIG. 3B**

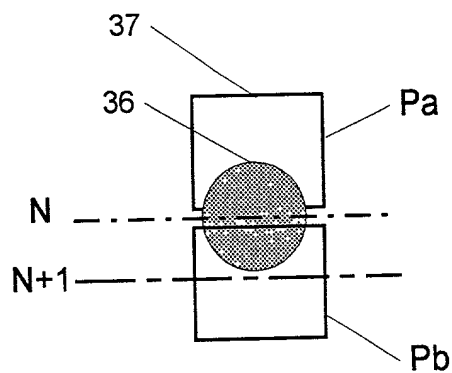


FIG. 4

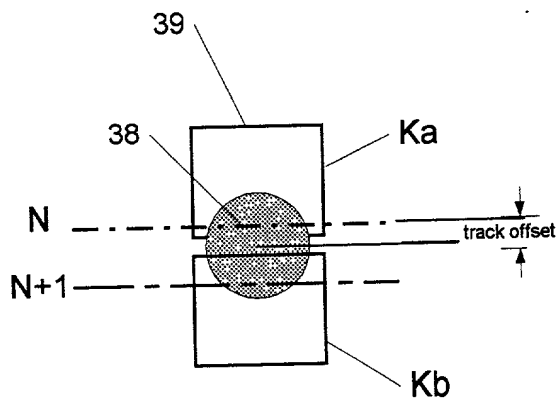


FIG. 5A

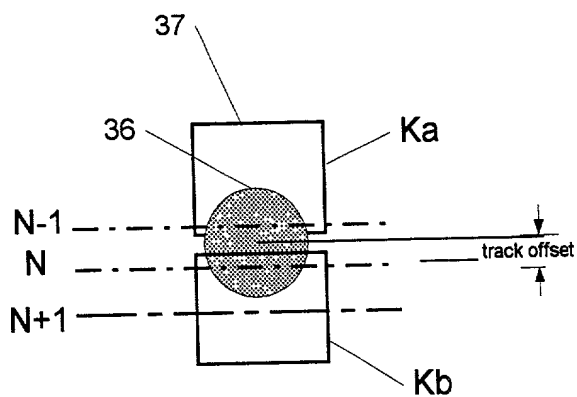
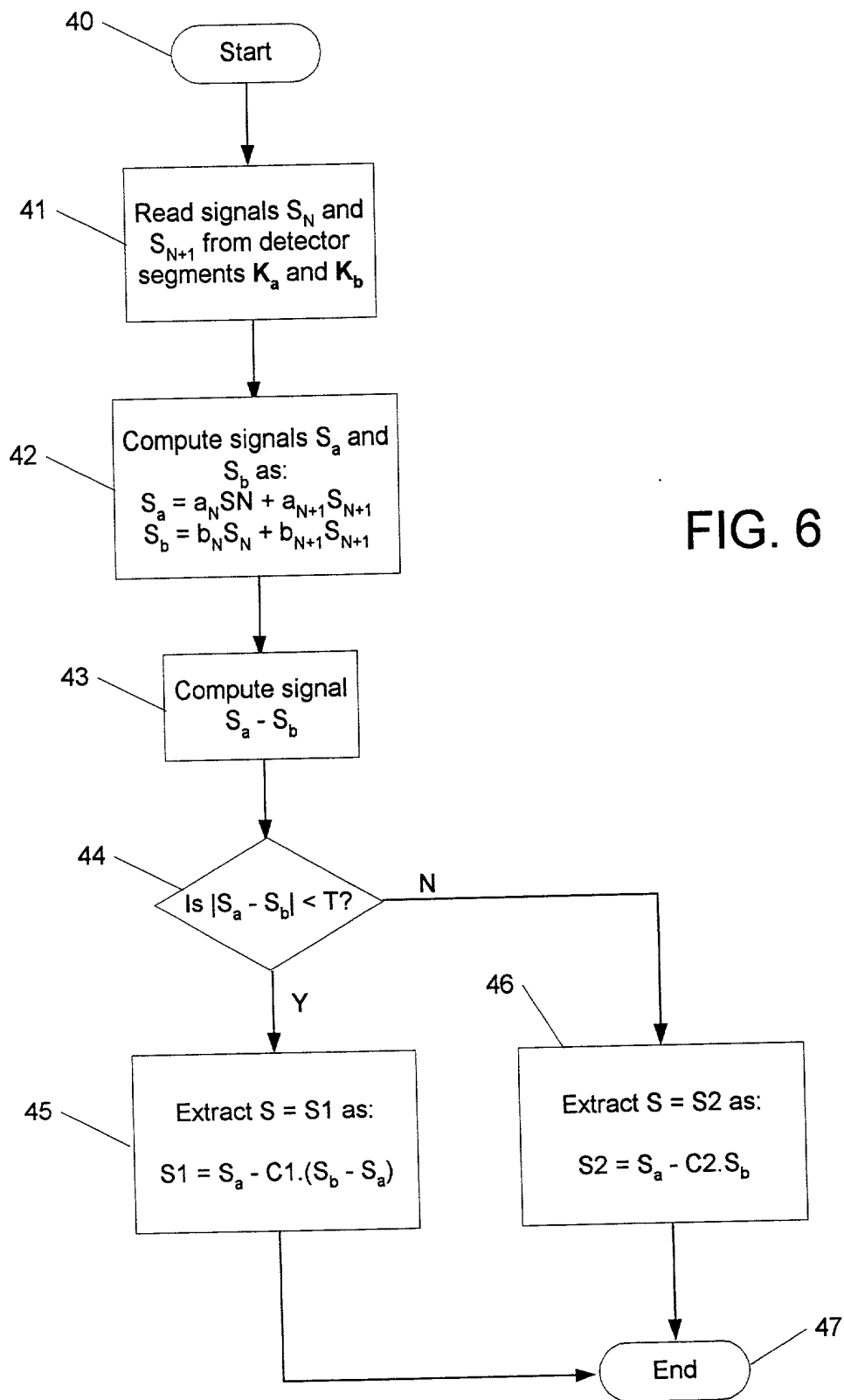


FIG. 5B



48

Track Offset (% of track pitch)	No split detectors, no cross-talk cancellation	Split detectors, no cross-talk cancellation	No split detectors, with cross-talk cancellation	Split detectors with cross-talk cancellation
0	6.2	6.8	6.2	5.4
7	6.7	6.4	6.1	5.2
14	9.9	6.6	6.6	5.3
21	16.5	6.25	7.8	5.4
29	23.9	5.9	12.5	5.9

FIG. 7

49

Track Offset (% of track pitch)	Coefficient C1 (cross-talk cancellation algorithm 1)	Coefficient C2 (cross-talk cancellation algorithm 2)
0	-0.45	-1
7	-0.32	-0.47
14	-0.21	-0.25
21	-0.1	-0.12
29	0.005	-0.005
36	0.1	0.1
43	0.26	0.21
50	0.4	0.29

FIG. 8



48

Track Offset (% of track pitch)	RMS Ratio (cross-talk cancellation algorithm 1)	RMS Ratio (cross-talk cancellation algorithm 2)
0	0.99	1.99
7	0.95	1.41
14	0.95	1.19
21	0.97	1.08
29	1	1
36	1.06	0.95
43	1.15	0.91
50	1.22	0.87

FIG. 9